

Notice of Allowability

Application No.

10/685,542

Applicant(s)

MARUYAMA ET AL.

Examiner

Russell M Kobert

Art Unit

2829

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Election filed on August 30, 2004.
2. ☒ The allowed claim(s) is/are 18-22.
3. ☒ The drawings filed on 16 October 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09/009,261 ^{and 09/268,338}
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>0104, 1103 & 1003</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

1. Applicant's election of Species 79 (Figure 34) and Sub-Species 1 (Figure 37A), claims 18-23, in the reply filed on August 30, 2004 is acknowledged. However, it is noted Applicants' in the Amendment filed October 16, 2003 canceled claim 23. Respectfully, only the remaining elected claims (claims 18-22) continue to read on the elected species and sub-species. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. Claims 16 and 24-31 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on August 30, 2004.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

A semiconductor testing device comprising a contactor having a connection portion of a contact portion located in an opening of an insulating substrate, a portion of the contact portion being supported by a projection formed in the opening, wherein a wiring substrate is electrically connected via first and second connection terminals located on opposite surfaces of the wiring substrate through an interposer to the contactor as detailed in independent claim 18 has not been found. It is further noted

that the examiner's reasons are understood to be predicated upon consideration of each of the claims as a whole, and not upon any specific elements of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Edwards et al (6064576) shows a ball connector used to connect an interposer to a printed circuit board, the ball connector disposed on a cantilever structure formed in the interposer.

Jackson (6285081) shows an interconnect having a deflectable cantilever for contact with a ball of an integrated circuit ball grid array.

Examiner's Amendment

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

6. This application is in condition for allowance except for the presence of claims 16 and 24-31 to Species non-elected without traverse. Accordingly, claims 16 and 24-31 have been cancelled.

7. The paragraph on page 2, titled CROSS REFERENCE TO RELATED APPLICATION has been replaced by:

-- CROSS REFERENCE TO RELATED APPLICATIONS

This application is a divisional of prior application Serial No. 09/828,221, filed April 9, 2001, now U.S. Patent No. 6,661,247, issued December 9, 2003 which is a divisional of prior application Serial No. 09/268,338 filed March 16, 1999, now U.S. Patent No. 6,249,135 B1, issued June 19, 2001 which is a continuation-in-part of prior application Serial No. 09/009,261 filed January 20, 1998, now abandoned. --

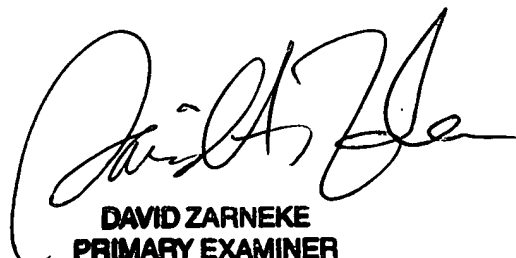
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (571) 272-1963.

The Examiner's Supervisor, Michael J. Tokar, can be reached at (571) 272-1812.

For an automated menu of Tech Center 2800 phone numbers call (571) 272-2800.



Russell M. Kobert
Patent Examiner
Group Art Unit 2829
October 15, 2004



DAVID ZARNEKE
PRIMARY EXAMINER

10/15/04